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November 30, 2017

VIA ELECTRONIC FILING

The Honorable Jocelyn G. Boyd
Chief Clerk/Administrator
Public Service Commission of South Carolina
101 Executive Center Drive, Suite 100
Columbia, South Carolina 29210

Re: **Duke Energy Progress, LLC – Monthly Fuel Report
Docket No. 2006-176-E**

Dear Ms. Boyd:

Pursuant to the Commission's Orders in Docket No. 1977-354-E, enclosed for filing is Duke Energy Progress, LLC's Monthly Fuel Report in Docket No. 2006-176-E for the month of October 2017.

Should you have any questions regarding this matter, please do not hesitate to contact me at 803-988-7130.

Sincerely,

A handwritten signature in blue ink, appearing to read "Rebecca Dulin", written in a cursive style.

Rebecca J. Dulin

Enclosure

cc: Service List

**Duke Energy Progress
Summary of Monthly Fuel Report**

Schedule 1

Line No.	Item	October 2017
1	Fuel and Fuel-related Costs excluding DERP incremental costs	\$ 107,952,729
	MWH sales:	
2	Total System Sales	5,403,510
3	Less intersystem sales	557,987
4	Total sales less intersystem sales	4,845,523
5	Total fuel and fuel-related costs (¢/KWH) (Line 1/Line 4)	2.2279
6	Current fuel & fuel-related cost component (¢/KWH) (per Schedule 4)	2.4929
	Generation Mix (MWH):	
	Fossil (By Primary Fuel Type):	
7	Coal	447,552
8	Oil	10,847
9	Natural Gas - Combustion Turbine	189,674
10	Natural Gas - Combined Cycle	1,484,929
11	Total Fossil	2,133,002
12	Nuclear	2,521,007
13	Hydro - Conventional	32,085
14	Solar Distributed Generation	20,674
15	Total MWH generation	4,706,768

Note: Detail amounts may not add to totals shown due to rounding.

Schedule 2

Duke Energy Progress
Details of Fuel and Fuel-Related Costs

Description	October 2017
Fuel and Fuel-Related Costs:	
Steam Generation - Account 501	
0501110 coal consumed - steam	\$ 15,598,336
0501310 fuel oil consumed - steam	1,053,891
Total Steam Generation - Account 501	16,652,227
Nuclear Generation - Account 518	
0518100 burnup of owned fuel	17,381,350
Other Generation - Account 547	
0547000 natural gas consumed - Combustion Turbine	7,985,630
0547000 natural gas consumed - Combined Cycle	42,925,958
0547200 fuel oil consumed	1,218,783
Total Other Generation - Account 547	52,130,371
Purchased Power and Net Interchange - Account 555	
Fuel and fuel-related component of purchased power	31,111,773
Fuel and fuel-related component of DERP purchases	-
PURPA purchased power capacity	5,334,274
DERP purchased power capacity	-
Total Purchased Power and Net Interchange - Account 555	36,446,047
Less fuel and fuel-related costs recovered through intersystem sales - Account 447	15,340,529
Total Costs Included in Base Fuel Component	\$ 107,269,467
Environmental Costs	
0509030, 0509212, 0557451 emission allowance expense	\$ 2,069
0502020, 0502030, 0502040, 0502080, 0502090, 0548020 reagents expense	783,524
Emission Allowance Gains	(10,000)
Less reagents expense recovered through intersystem sales - Account 447	68,897
Less emissions expense recovered through intersystem sales - Account 447	23,434
Total Costs Included in Environmental Component	683,263
Fuel and Fuel-related Costs excluding DERP incremental costs	\$ 107,952,729
DERP Incremental Costs	126,882
Total Fuel and Fuel-related Costs	\$ 108,079,611

Notes: Detail amounts may not add to totals shown due to rounding.

**DUKE ENERGY PROGRESS
PURCHASED POWER AND INTERCHANGE
SOUTH CAROLINA**

OCTOBER 2017

**Schedule 3, Purchases
Page 1 of 2**

Purchased Power	Total	Capacity	Non-capacity		
Marketers, Utilities, Other	\$	\$	mWh	Fuel \$	Non-fuel \$
Broad River Energy, LLC.	\$ 5,651,063	\$ 1,077,461	103,919	\$ 4,573,602	-
Cargill-Alligant, LLC.	72,000	-	1,500	72,000	-
City of Fayetteville	848,696	302,200	9,216	546,496	-
Haywood EMC	29,850	29,850	-	-	-
NCEMC	3,771,741	2,630,496	28,280	1,141,245	-
PJM Interconnection, LLC.	11,862	-	456	11,862	-
Southern Company Services	3,421,156	551,460	89,080	2,869,696	-
DE Carolinas - Native Load Transfer	1,757,147	-	55,144	1,728,813	\$ 28,334
DE Carolinas - Native Load Transfer Benefit	146,443	-	-	146,443	-
Energy Imbalance	503		14	327	176
Generation Imbalance	51,094		816	31,167	19,927
	\$ 15,761,555	\$ 4,591,467	288,425	\$ 11,121,651	\$ 48,437
Act 236 PURPA Purchases					
Renewable Energy	\$ 18,548,190	\$ -	262,841	\$ 18,548,190	-
Other Qualifying Facilities	6,776,206	-	103,093	6,776,206	-
	\$ 25,324,396	\$ -	365,934	\$ 25,324,396	\$ -
Total Purchased Power	\$ 41,085,951	\$ 4,591,467	654,359	\$ 36,446,047	\$ 48,437

NOTE: Detail amounts may not add to totals shown due to rounding.

**DUKE ENERGY PROGRESS
INTERSYSTEM SALES*
SOUTH CAROLINA**

OCTOBER 2017

**Schedule 3, Sales
Page 2 of 2**

Sales	Total	Capacity	Non-capacity		
	\$	\$	mWh	Fuel \$	Non-fuel \$
Utilities:					
SC Public Service Authority - Emergency	\$ 138,297	\$ 64,000	400	\$ 43,054	\$ 31,243
Market Based:					
NCEMC Purchase Power Agreement	1,064,661	652,500	11,690	405,479	6,682
PJM Interconnection, LLC.	21,479	-	1,517	29,811	(8,332)
Southern Company	-	-	-	-	-
The Energy Authority	-	-	-	-	-
Other:					
DE Carolinas - Native Load Transfer Benefit	1,768,602	-	-	1,768,602	-
DE Carolinas - Native Load Transfer	13,773,769	-	544,376	13,185,914	587,855
Generation Imbalance	-	-	4	-	-
Total Intersystem Sales	\$ 16,766,808	\$ 716,500	557,987	\$ 15,432,860	\$ 617,448

* Sales for resale other than native load priority.

NOTE: Detail amounts may not add to totals shown due to rounding.

Duke Energy Progress
(Over) / Under Recovery of Fuel Costs
October 2017

Schedule 4
Page 1 of 3

Line No.			Total Residential	General Service Non-Demand	Demand	Lighting	Total
1	Actual System kWh sales	Input					4,845,522,788
2	DERP Net Metered kWh generation	Input					463,456
3	Adjusted System kWh sales	L1 + L2					4,845,986,244
4	Actual S.C. Retail kWh sales	Input	146,380,809	24,412,350	377,168,450	7,045,388	555,006,997
5	DERP Net Metered kWh generation	Input	191,331	4,577	267,549		463,456
6	Adjusted S.C. Retail kWh sales	L4 + L5	146,572,140	24,416,927	377,435,999	7,045,388	555,470,453
7	Actual S.C. Demand units (kw)	L32 / 31b *100			712,886		
Base fuel component of recovery - non-capacity							
8	Incurred System base fuel - non-capacity expense	Input					\$90,566,358
9	Eliminate avoided fuel benefit of S.C. net metering	Input					\$14,843
10	Adjusted Incurred System base fuel - non-capacity expense	L8 + L9					\$90,581,201
11	Adjusted Incurred System base fuel - non-capacity rate (¢/kWh)	L10 / L3 * 100					1.869
12	S.C. Retail portion of adjusted incurred system expense	L6 * L11 / 100	\$2,739,727	\$456,401	\$7,055,036	\$131,692	\$10,382,856
13	Assign 100 % of Avoided Fuel Benefit of S.C net metering	Input	(\$7,955)	(\$802)	(\$6,086)	\$0	(\$14,843)
14	S.C. Retail portion of incurred system expense	L12 + L13	\$2,731,772	\$455,599	\$7,048,950	\$131,692	\$10,368,013
15	Billed base fuel - non-capacity rate (¢/kWh) - Note 1	Input	2.210	2.210	2.210	2.210	2.210
16	Billed base fuel - non-capacity revenue	L4 * L15 /100	\$3,234,574	\$539,513	\$8,335,423	\$155,703	\$12,265,213
17	DERP NEM incentive - fuel component	Input	(\$2,169)	(\$219)	(\$1,659)	\$0	(\$4,047)
18	Adjusted S.C. billed base fuel - non-capacity revenue	L16 + L17	\$3,232,405	\$539,294	\$8,333,764	\$155,703	\$12,261,166
19	S.C. base fuel - non-capacity (over)/under recovery [See footnote]	L18 - L14	(\$500,633)	(\$83,695)	(\$1,284,814)	(\$24,011)	(\$1,893,153)
20	Adjustment - Economic Purchases	Input	\$0	\$0	\$0	\$0	\$0
21	Total S.C. base fuel - non-capacity (over)/under recovery [See footnote]	L19 + L20	(\$500,633)	(\$83,695)	(\$1,284,814)	(\$24,011)	(\$1,893,153)
Base fuel component of recovery - capacity							
22a	Incurred base fuel - capacity rates by class (¢/kWh)	L23 / L4 * 100	0.700	0.424			
22b	Incurred base fuel - capacity rate (¢/kW)	L23 / L7 * 100			110		
23	Incurred S.C. base fuel - capacity expense	Input	\$1,025,301	\$103,440	784,435.00		\$1,913,176
24a	Billed base fuel - capacity rates by class (¢/kWh)	Input	0.471	0.371			
24b	Billed base fuel - capacity rate (¢/kW)	Input			96		
25	Billed S.C. base fuel - capacity revenue	L24a * L4 /100	\$689,906	\$90,570	\$ 683,550	\$0	\$1,464,026
26	S.C. base fuel - capacity (over)/under recovery [See footnote]	L25 - L23	\$335,395	\$12,870	100,885.00	\$0	\$449,150
27	Adjustment	Input	\$0	\$0	\$0	\$0	\$0
28	Total S.C. base fuel - capacity (over)/under recovery [See footnote]	L26 + L27	\$335,395	\$12,870	\$100,885	\$0	\$449,150
Environmental component of recovery							
29a	Incurred environmental rates by class (¢/kWh)	L30 / L4 * 100	0.029	0.017			
29b	Incurred environmental rate (¢/kW)	L30 / L7 * 100			5		
30	Incurred S.C. environmental expense	Input	\$41,941	\$4,231	\$32,088		\$78,260
31a	Billed environmental rates by class (¢/kWh)	Input	0.035	0.024			
31b	Billed environmental rate (¢/kW)	Input			7		
32	Billed S.C. environmental revenue	L31a * L4 /100	\$50,835	\$5,859	\$ 49,902		\$106,596
33	S.C. environmental (over)/under recovery [See footnote]	L32 - L30	(\$8,894)	(\$1,628)	(\$17,814)	\$0	(\$28,336)
34	Adjustment	Input	\$0	\$0	\$0	\$0	\$0
35	Total S.C. environmental (over)/under recovery [See footnote]	L33 + L34	(\$8,894)	(\$1,628)	(\$17,814)	\$0	(\$28,336)
Distributed Energy Resource Program component of recovery: avoided costs							
36a	Incurred S.C. DERP avoided cost rates by class (¢/kWh)	L37 / L4 * 100	0.000	0.000			
36b	Incurred S.C. DERP avoided cost rates by class (¢/kW)	L37 / L7 * 100			0.000		
37	Incurred S.C. DERP avoided cost expense	Input	-	-	-		\$0
38a	Billed S.C. DERP avoided cost rates by class (¢/kWh)	Input	0.000	0.000			
38b	Billed S.C. DERP avoided cost rates by class (¢/kW)	Input			0.000		
39	Billed S.C. DERP avoided cost revenue	L38a * L4 /100	\$0	\$0	\$0		\$0
40	S.C. DERP avoided cost (over)/under recovery [See footnote]	L39 - L37	\$0	\$0	\$0	\$0	\$0
41	Adjustment	Input	\$0	\$0	\$0	\$0	\$0
42	Total S.C. DERP avoided cost (over)/under recovery [See footnote]	L40 + L41	\$0	\$0	\$0	\$0	\$0
43	Total (over)/under recovery [See footnote]	L21 + L28 + L35 + L42	(\$174,132)	(\$72,453)	(\$1,201,743)	(\$24,011)	(\$1,472,339)

Duke Energy Progress
(Over) / Under Recovery of Fuel Costs
October 2017

Schedule 4
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Year 2017-2018

Cumulative (over) / under recovery - **BASE FUEL NON-CAPACITY**

Balance ending February 2017	6,872,181					
March 2017 - actual	9,008,686	\$763,399	\$98,306	\$1,239,859	\$34,941	\$2,136,505
April 2017 - actual	10,494,432	\$426,888	\$62,439	\$973,844	\$22,575	\$1,485,746
May 2017 - actual	9,808,868	(\$173,333)	(\$27,502)	(\$475,412)	(\$9,317)	(\$685,564)
June 2017 - actual	11,236,626	\$488,131	\$74,799	\$844,641	\$20,187	\$1,427,758
July 2017 - actual	11,772,725	\$172,369	\$25,506	\$332,436	\$5,788	\$536,099
August 2017 - actual	11,986,788	\$72,808	\$10,890	\$127,812	\$2,553	\$214,063
September 2017 - actual	10,024,599	(\$684,686)	(\$110,532)	(\$1,141,999)	(\$24,972)	(\$1,962,189)
October 2017 - actual	8,131,446	(\$500,633)	(\$83,695)	(\$1,284,814)	(\$24,011)	(\$1,893,153)
November 2017 - forecast	6,651,146	(\$431,594)	(\$62,582)	(\$962,457)	(\$23,667)	(\$1,480,300)
December 2017 - forecast	6,481,760	(\$67,692)	(\$6,310)	(\$93,035)	(\$2,349)	(\$169,386)
January 2018 - forecast	6,319,136	(\$68,637)	(\$6,015)	(\$85,851)	(\$2,121)	(\$162,624)
February 2018 - forecast	5,133,488	(\$469,517)	(\$43,457)	(\$656,565)	(\$16,109)	(\$1,185,648)
March 2018 - forecast	4,852,660	(\$101,021)	(\$11,065)	(\$164,738)	(\$4,004)	(\$280,828)
April 2018 - forecast	3,628,719	(\$365,358)	(\$51,469)	(\$787,818)	(\$19,296)	(\$1,223,941)
May 2018 - forecast	2,569,409	(\$299,148)	(\$47,577)	(\$695,757)	(\$16,828)	(\$1,059,310)
June 2018 - forecast	2,205,788	(\$113,222)	(\$16,138)	(\$228,709)	(\$5,552)	(\$363,621)

Year 2017-2018

Cumulative (over) / under recovery - **BASE FUEL CAPACITY**

Balance ending February 2017	893,261					
March 2017 - actual	806,670	(\$56,692)	(\$2,999)	(\$26,900)	\$0	(\$86,591)
April 2017 - actual	855,256	\$34,522	\$2,742	\$11,322	\$0	\$48,586
May 2017 - actual	863,837	\$16,521	(\$860)	(\$7,080)	\$0	\$8,581
June 2017 - actual	1,093,070	\$111,106	\$8,714	\$109,413	\$0	\$229,233
July 2017 - actual	1,329,570	\$92,732	(\$6,332)	\$150,100	\$0	\$236,500
August 2017 - actual	1,544,702	\$102,543	(\$7,486)	\$120,075	\$0	\$215,132
September 2017 - actual	1,721,380	\$110,370	(\$11,647)	\$77,955	\$0	\$176,678
October 2017 - actual	2,170,530	\$335,395	\$12,870	\$100,885	\$0	\$449,150
November 2017 - forecast	2,296,894	\$119,890	\$4,033	\$2,441	\$0	\$126,364
December 2017 - forecast	1,879,437	(\$257,053)	\$170	(\$160,574)	\$0	(\$417,457)
January 2018 - forecast	1,435,055	(\$456,151)	(\$7,429)	\$19,198	\$0	(\$444,382)
February 2018 - forecast	1,076,846	(\$329,708)	(\$2,380)	(\$26,121)	\$0	(\$358,209)
March 2018 - forecast	1,031,948	(\$34,488)	\$9,875	(\$20,285)	\$0	(\$44,898)
April 2018 - forecast	1,283,627	\$171,405	\$10,905	\$69,369	\$0	\$251,679
May 2018 - forecast	1,553,259	\$212,728	\$6,686	\$50,218	\$0	\$269,632
June 2018 - forecast	1,439,057	\$37,158	(\$4,668)	(\$146,692)	\$0	(\$114,202)

Year 2017-2018

Cumulative (over) / under recovery - ENVIRONMENTAL

_/2 Balance ending February 2017	(618,034)					
March 2017 - actual	(633,513)	(\$13,791)	(\$1,056)	(\$632)	\$0	(\$15,479)
April 2017 - actual	(682,896)	(\$27,527)	(\$3,223)	(\$18,633)	\$0	(\$49,383)
May 2017 - actual	(718,603)	(\$19,646)	(\$2,877)	(\$13,184)	\$0	(\$35,707)
June 2017 - actual	(729,460)	(\$12,726)	(\$2,238)	\$4,107	\$0	(\$10,857)
July 2017 - actual	(639,166)	\$45,068	\$4,415	\$40,811	\$0	\$90,294
August 2017 - actual	(570,303)	\$35,153	\$3,230	\$30,480	\$0	\$68,863
September 2017 - actual	(606,640)	(\$19,149)	(\$2,616)	(\$14,572)	\$0	(\$36,337)
October 2017 - actual	(634,976)	(\$8,894)	(\$1,628)	(\$17,814)	\$0	(\$28,336)
November 2017 - forecast	(671,628)	(\$16,393)	(\$1,576)	(\$18,683)	\$0	(\$36,652)
December 2017 - forecast	(610,849)	\$29,591	\$5,498	\$25,690	\$0	\$60,779
January 2018 - forecast	(448,054)	\$70,783	\$10,688	\$81,324	\$0	\$162,795
February 2018 - forecast	(315,789)	\$64,264	\$8,569	\$59,432	\$0	\$132,265
March 2018 - forecast	(276,877)	\$51,803	(\$148)	(\$12,743)	\$0	\$38,912
April 2018 - forecast	(256,360)	\$41,584	(\$1,772)	(\$19,295)	\$0	\$20,517
May 2018 - forecast	(237,506)	\$37,681	(\$1,606)	(\$17,221)	\$0	\$18,854
June 2018 - forecast	(152,098)	\$47,988	\$5,962	\$31,458	\$0	\$85,408

Cumulative (over) / under recovery - DERP AVOIDED COSTS

_/2 Balance ending February 2017	-					
March 2017 - actual	0	\$0	\$0	\$0	\$0	\$0
April 2017 - actual	0	\$0	\$0	\$0	\$0	\$0
May 2017 - actual	0	\$0	\$0	\$0	\$0	\$0
June 2017 - actual	252	\$135	\$14	\$103	\$0	\$252
July 2017 - actual	252	\$0	\$0	\$0	\$0	\$0
August 2017 - actual	252	\$0	\$0	\$0	\$0	\$0
September 2017 - actual	252	\$0	\$0	\$0	\$0	\$0
October 2017 - actual	252	\$0	\$0	\$0	\$0	\$0
November 2017 - forecast	252	\$0	\$0	\$0	\$0	\$0
December 2017 - forecast	252	\$0	\$0	\$0	\$0	\$0
January 2018 - forecast	252	\$0	\$0	\$0	\$0	\$0
February 2018 - forecast	252	\$0	\$0	\$0	\$0	\$0
March 2018 - forecast	252	\$0	\$0	\$0	\$0	\$0
April 2018 - forecast	252	\$0	\$0	\$0	\$0	\$0
May 2018 - forecast	252	\$0	\$0	\$0	\$0	\$0
June 2018 - forecast	252	\$0	\$0	\$0	\$0	\$0

Duke Energy Progress
(Over) / Under Recovery of Fuel Costs
October 2017

Schedule 4
Page 3 of 3

Line No.			Residential	Commercial	Industrial	Total
Distributed Energy Resource Program component of recovery: incremental costs						
44	Incurred S.C. DERP incremental expense	Input	\$67,998	\$34,898	\$23,986	\$126,882
45	Billed S.C. DERP incremental rates by account (\$/account)	Input	1.00	2.88	99.56	
46	Billed S.C. DERP incremental revenue	Input	\$144,954	\$97,344	\$28,506	\$270,804
47	S.C. DERP incremental (over)/under recovery [See footnote]	L44 - L46	(\$76,956)	(\$62,446)	(\$4,520)	(\$143,922)
48	Adjustment	Input	\$0	\$0	\$0	\$0
49	Total S.C. DERP incremental (over)/under recovery [See footnote]	L47 + L48	(\$76,956)	(\$62,446)	(\$4,520)	(\$143,922)

Year 2017-2018					
Cumulative (over) / under recovery					
_/2 Balance ending February 2017					
March 2017 - actual					
April 2017 - actual					
May 2017 - actual					
June 2017 - actual					
July 2017 - actual					
August 2017 - actual					
September 2017 - actual					
October 2017 - actual					
November 2017 - forecast					
December 2017 - forecast					
January 2018 - forecast					
February 2018 - forecast					
March 2018 - forecast					
April 2018 - forecast					
May 2018 - forecast					
June 2018 - forecast					

Notes:
Detail amounts may not recalculate due to percentages presented as rounded.
Presentation of over or under collected amounts reflects a regulatory asset or liability. Over collections, or regulatory liabilities, are shown as negative amounts.
Under collections, or regulatory assets, are shown as positive amounts.

_/1 Total residential billed fuel rate is a composite rate reflecting the approved residential rate of 2.246 and RECD 5% discount.
_/2 February 2017 ending balance reflects total adjustments of \$(129,849) pursuant to the docket no. 2017-1-E directive.

Duke Energy Progress
Fuel and Fuel Related Cost Report
October 2017

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Description	Weatherspoon CT	Lee CC	Sutton CC/CT	Robinson Nuclear	Asheville Steam	Asheville CT	Roxboro Steam	Mayo Steam
Cost of Fuel Purchased (\$)								
Coal	-	-	-	-	\$3,728,845	-	\$21,653,421	\$1,131,115
Oil	-	-	(325,730)	19,024	840,444	-	396,632	583,145
Gas - CC	-	16,848,886	11,166,104	-	-	-	-	-
Gas - CT	47	-	502,320	-	-	77,683	-	-
Total	\$47	\$16,848,886	\$11,342,694	19,024	\$4,569,289	\$77,683	\$22,050,053	\$1,714,260
Average Cost of Fuel Purchased (¢/MBTU)								
Coal	-	-	-	-	318.80	-	318.50	374.58
Oil	-	-	2,019.15	1,848.79	1,358.51	-	1,622.95	1,477.81
Gas - CC	-	399.00	145.38	-	-	-	-	-
Gas - CT	-	-	-	-	-	(A)	-	-
Weighted Average	-	399.00	474.93	1,848.79	371.03	35,798.62	323.17	502.08
Cost of Fuel Burned (\$)								
Coal	-	-	-	-	\$3,102,028	-	\$10,941,922	\$1,554,386
Oil - CC	-	5,260	25,880	-	-	-	-	-
Oil - Steam/CT	19,319	-	-	-	68,537	1,045,886	468,601	516,753
Gas - CC	-	16,848,886	11,166,104	-	-	-	-	-
Gas - CT	47	-	502,320	-	-	77,683	-	-
Nuclear	-	-	-	4,109,119	-	-	-	-
Total	\$19,366	\$16,854,146	\$11,694,304	\$4,109,119	\$3,170,565	\$1,123,569	\$11,410,523	\$2,071,139
Average Cost of Fuel Burned (¢/MBTU)								
Coal	-	-	-	-	318.97	-	316.93	317.55
Oil - CC	-	1,747.51	1,947.33	-	-	-	-	-
Oil - Steam/CT	1,506.94	-	-	-	1,354.22	1,354.32	1,560.96	1,494.28
Gas - CC	-	399.00	145.38	-	-	-	-	-
Gas - CT	-	-	-	-	-	(A)	-	-
Nuclear	-	-	-	69.31	-	-	-	-
Weighted Average	1,510.61	399.10	486.10	69.31	324.33	1,450.83	327.65	395.20
Average Cost of Generation (¢/kWh)								
Coal	-	-	-	-	3.85	-	3.32	4.11
Oil - CC	-	15.57	22.64	-	-	-	-	-
Oil - Steam/CT	1,931.90	-	-	-	18.93	18.96	24.76	19.35
Gas - CC	-	2.90	3.44	-	-	-	-	-
Gas - CT	-	-	4.66	-	-	-	-	-
Nuclear	-	-	-	0.72	-	-	-	-
Weighted Average	-	2.90	3.49	0.72	3.92	20.37	3.45	5.12
Burned MBTU's								
Coal	-	-	-	-	972,508	-	3,452,519	489,488
Oil - CC	-	301	1,329	-	-	-	-	-
Oil - Steam/CT	1,282	-	-	-	5,061	77,226	30,020	34,582
Gas - CC	-	4,222,731	7,680,808	-	-	-	-	-
Gas - CT	-	-	(5,276,379)	-	-	217	-	-
Nuclear	-	-	-	5,928,194	-	-	-	-
Total	1,282	4,223,032	2,405,758	5,928,194	977,569	77,443	3,482,539	524,070
Net Generation (mWh)								
Coal	-	-	-	-	80,484	-	329,272	37,796
Oil - CC	-	34	114	-	-	-	-	-
Oil - Steam/CT	1	-	-	-	362	5,517	1,893	2,670
Gas - CC	-	581,062	324,468	-	-	-	-	-
Gas - CT	(15)	-	10,779	-	-	-	-	-
Nuclear	-	-	-	569,005	-	-	-	-
Hydro (Total System)								
Solar (Total System)								
Total	(14)	581,096	335,361	569,005	80,846	5,517	331,165	40,466
Cost of Reagents Consumed (\$)								
Ammonia	-	-	-	-	-	-	-	-
Limestone	-	-	-	-	110,817	-	349,085	48,663
Re-emission Chemical	-	-	-	-	-	-	35,383	-
Sorbents	-	-	-	-	3,325	-	161,831	-
Urea	-	-	-	-	62,282	-	-	-
Total	-	-	-	-	176,424	-	546,298	48,663

Notes:

Detail amounts may not add to totals shown due to rounding.

Schedule excludes in-transit, terminal and tolling agreement activity.

Cents/MBTU and cents/kWh are not computed when costs and/or net generation is negative.

Fuel cost information on this report does not reflect intercompany sharing of fuel-related merger savings between Duke Energy Carolinas and Duke Energy Progress.

Lee and Wayne oil burn is associated with inventory consumption shown on Schedule 6 for Wayne.

Cost of fuel oil received includes a transfer of inventory from retired units at Sutton to Mayo and Roxboro stations of \$146,286 and \$179,444, respectively.

(A) Cents per MBTU is atypical for current month due to low output.

Duke Energy Progress
Fuel and Fuel Related Cost Report
October 2017

Schedule 5
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Description	Brunswick Nuclear	Blewett CT	Wayne County CT	Darlington CT	Smith Energy Complex CC/CT	Harris Nuclear	Current Month	Total 12 ME October 2017
Cost of Fuel Purchased (\$)								
Coal	-	-	-	-	-	-	\$26,513,381	\$324,895,735
Oil	-	-	-	-	-	-	1,513,515	17,446,544
Gas - CC	-	-	-	-	14,910,968	-	42,925,958	584,867,303
Gas - CT	-	-	1,439,264	168,873	5,797,443	-	7,985,630	92,632,476
Total	-	-	\$1,439,264	\$168,873	\$20,708,411	-	\$78,938,484	\$1,019,842,057
Average Cost of Fuel Purchased (¢/MBTU)								
Coal	-	-	-	-	-	-	320.59	315.00
Oil	-	-	-	-	-	-	1,367.70	1,286.41
Gas - CC	-	-	-	-	365.04	-	268.48	419.32
Gas - CT	-	-	368.08	410.19	365.67	-	-	370.26
Weighted Average	-	-	368.08	410.19	365.22	-	373.93	379.01
Cost of Fuel Burned (\$)								
Coal	-	-	-	-	-	-	\$15,598,336	\$281,862,977
Oil - CC	-	-	-	-	12,107	-	43,247	287,772
Oil - Steam/CT	-	18,378	91,952	-	-	-	2,229,426	19,850,961
Gas - CC	-	-	-	-	14,910,968	-	42,925,958	584,867,303
Gas - CT	-	-	1,439,264	168,873	5,797,443	-	7,985,630	92,632,476
Nuclear	9,297,429	-	-	-	-	3,974,802	17,381,350	199,780,745
Total	\$9,297,429	\$18,378	\$1,531,216	\$168,873	\$20,720,518	\$3,974,802	\$86,163,947	\$1,179,282,233
Average Cost of Fuel Burned (¢/MBTU)								
Coal	-	-	-	-	-	-	317.39	308.68
Oil - CC	-	-	-	-	1,660.77	-	1,833.28	1,806.56
Oil - Steam/CT	-	1,667.73	1,747.14	-	-	-	1,442.66	1,418.38
Gas - CC	-	-	-	-	365.04	-	268.48	419.32
Gas - CT	-	-	368.08	410.19	365.67	-	-	370.26
Nuclear	63.05	-	-	-	-	65.45	64.98	64.94
Weighted Average	63.05	1,667.73	386.39	410.19	365.39	65.45	193.41	208.77
Average Cost of Generation (¢/kWh)								
Coal	-	-	-	-	-	-	3.49	3.36
Oil - CC	-	-	-	-	18.63	-	20.30	18.79
Oil - Steam/CT	-	91.89	25.83	-	-	-	20.96	18.95
Gas - CC	-	-	-	-	2.57	-	2.89	3.00
Gas - CT	-	-	4.11	7.42	4.09	-	4.21	4.10
Nuclear	0.67	-	-	-	-	0.71	0.69	0.68
Weighted Average	0.67	91.89	4.33	8.08	2.87	0.71	1.83	1.96
Burned MBTU's								
Coal	-	-	-	-	-	-	4,914,515	91,311,644
Oil - CC	-	-	-	-	729	-	2,359	15,929
Oil - Steam/CT	-	1,102	5,263	-	-	-	154,536	1,399,553
Gas - CC	-	-	-	-	4,084,697	-	15,988,236	139,479,349
Gas - CT	-	-	391,020	41,169	1,585,442	-	(3,258,531)	25,018,383
Nuclear	14,746,771	-	-	-	-	6,073,003	26,747,968	307,640,416
Total	14,746,771	1,102	396,283	41,169	5,670,868	6,073,003	44,549,083	564,865,274
Net Generation (mWh)								
Coal	-	-	-	-	-	-	447,552	8,382,952
Oil - CC	-	-	-	-	65	-	213	1,531
Oil - Steam/CT	-	20	356	(185)	-	-	10,634	104,750
Gas - CC	-	-	-	-	579,399	-	1,484,929	19,481,017
Gas - CT	-	-	35,005	2,275	141,630	-	189,674	2,259,339
Nuclear	1,395,042	-	-	-	-	556,960	2,521,007	29,171,566
Hydro (Total System)							32,085	437,743
Solar (Total System)							20,674	243,735
Total	1,395,042	20	35,361	2,090	721,094	556,960	4,706,768	60,082,633
Cost of Reagents Consumed (\$)								
Ammonia	-	-	-	-	\$12,139	-	\$12,139	\$1,657,121
Limestone	-	-	-	-	-	-	508,565	8,691,771
Re-emission Chemical	-	-	-	-	-	-	35,383	138,408
Sorbents	-	-	-	-	-	-	165,156	2,348,783
Urea	-	-	-	-	-	-	62,282	983,813
Total	-	-	-	-	12,139	-	783,524	13,819,896

Duke Energy Progress
Fuel & Fuel-related Consumption and Inventory Report
October 2017

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Description	Weatherspoon	Lee	Sutton	Robinson	Asheville
Coal Data:					
Beginning balance	-	-	-	-	124,903
Tons received during period	-	-	-	-	45,905
Inventory adjustments	-	-	-	-	-
Tons burned during period	-	-	-	-	38,897
Ending balance	-	-	-	-	131,911
MBTUs per ton burned	-	-	-	-	25.00
Cost of ending inventory (\$/ton)	-	-	-	-	79.75
Oil Data:					
Beginning balance	614,805	-	2,771,430	78,040	3,010,236
Gallons received during period	-	-	(116,900)	7,460	448,294
Miscellaneous use and adjustments	(200)	-	-	-	(4,246)
Gallons burned during period	9,156	-	9,228	7,460	598,198
Ending balance	605,449	-	2,645,302	78,040	2,856,086
Cost of ending inventory (\$/gal)	2.11	-	2.80	2.55	1.86
Gas Data:					
Beginning balance	-	-	-	-	-
MCF received during period	-	4,045,484	2,312,306	-	(423)
MCF burned during period	-	4,045,484	2,312,306	-	(423)
Ending balance	-	-	-	-	-
Limestone/Lime Data:					
Beginning balance	-	-	-	-	10,452
Tons received during period	-	-	-	-	5,575
Inventory adjustments	-	-	-	-	-
Tons consumed during period	-	-	-	-	2,322
Ending balance	-	-	-	-	13,705
Cost of ending inventory (\$/ton)	-	-	-	-	45.73

Notes:

Detail amounts may not add to totals shown due to rounding.

Schedule excludes in-transit, terminal and tolling agreement activity.

Gas is burned as received; therefore, inventory balances are not maintained.

The oil inventory data for Wayne reflects the common usage of the oil tank used for both Wayne and Lee units.

Oil received includes a transfer from retired units at Sutton to Mayo and Roxboro stations of 52,500 gallons and 64,400 gallons, respectively.

Duke Energy Progress
Fuel & Fuel-related Consumption and Inventory Report
October 2017

Schedule 6
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Description	Roxboro	Mayo	Brunswick	Blewett	Wayne County
Coal Data:					
Beginning balance	978,781	443,424	-	-	-
Tons received during period	267,364	11,731	-	-	-
Inventory adjustments	-	-	-	-	-
Tons burned during period	135,362	19,198	-	-	-
Ending balance	1,110,783	435,957	-	-	-
MBTUs per ton burned	25.51	25.50	-	-	-
Cost of ending inventory (\$/ton)	80.81	80.97	-	-	-
Oil Data:					
Beginning balance	389,063	249,889	178,205	779,069	11,978,924
Gallons received during period	177,091	285,943	-	-	-
Miscellaneous use and adjustments	(14,926)	(1,139)	-	-	-
Gallons burned during period	213,926	251,567	4,688	7,844	40,382
Ending balance	337,302	283,126	173,517	771,225	11,938,542
Cost of ending inventory (\$/gal)	2.19	2.05	2.55	2.34	2.41
Gas Data:					
Beginning balance	-	-	-	-	-
MCF received during period	-	-	-	-	375,750
MCF burned during period	-	-	-	-	375,750
Ending balance	-	-	-	-	-
Limestone/Lime Data:					
Beginning balance	92,172	20,739	-	-	-
Tons received during period	29,232	185	-	-	-
Inventory adjustments	27	-	-	-	-
Tons consumed during period	9,071	1,148	-	-	-
Ending balance	112,360	19,776	-	-	-
Cost of ending inventory (\$/ton)	36.22	39.54	-	-	-

Duke Energy Progress
Fuel & Fuel-related Consumption and Inventory Report
October 2017

Schedule 6
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Description	Darlington	Smith Energy Complex	Harris	Current Month	Total 12 ME October 2017
Coal Data:					
Beginning balance	-	-	-	1,547,108	1,152,257
Tons received during period	-	-	-	325,000	4,065,598
Inventory adjustments	-	-	-	-	36,131
Tons burned during period	-	-	-	193,457	3,575,335
Ending balance	-	-	-	1,678,651	1,678,651
MBTUs per ton burned	-	-	-	25.40	25.54
Cost of ending inventory (\$/ton)	-	-	-	80.77	80.77
Oil Data:					
Beginning balance	9,884,871	8,137,350	279,820	38,351,702	38,656,658
Gallons received during period	-	-	-	801,888	9,827,659
Miscellaneous use and adjustments	-	-	-	(20,511)	(201,708)
Gallons burned during period	-	5,209	-	1,147,658	10,297,188
Ending balance	9,884,871	8,132,141	279,820	37,985,421	37,985,421
Cost of ending inventory (\$/gal)	2.36	2.32	2.55	2.36	2.36
Gas Data:					
Beginning balance	-	-	-	-	-
MCF received during period	39,895	5,445,124	-	12,218,136	158,815,784
MCF burned during period	39,895	5,445,124	-	12,218,136	158,815,784
Ending balance	-	-	-	-	-
Limestone/Lime Data:					
Beginning balance	-	-	-	123,363	74,306
Tons received during period	-	-	-	34,992	301,252
Inventory adjustments	-	-	-	27	(10,276)
Tons consumed during period	-	-	-	12,541	219,441
Ending balance	-	-	-	145,841	145,841
Cost of ending inventory (\$/ton)	-	-	-	37.56	37.56

Schedule 7

DUKE ENERGY PROGRESS
ANALYSIS OF COAL PURCHASED
OCTOBER 2017

STATION	TYPE	QUANTITY OF TONS DELIVERED	DELIVERED COST	DELIVERED COST PER TON
ASHEVILLE	SPOT	-	-	-
	CONTRACT	45,905	\$ 3,575,808	\$ 77.90
	ADJUSTMENTS	-	153,037	-
	TOTAL	45,905	3,728,845	81.23
MAYO	SPOT	-	-	-
	CONTRACT	11,731	939,083	80.05
	ADJUSTMENTS	-	192,031	-
	TOTAL	11,731	1,131,115	96.42
ROXBORO	SPOT	-	-	-
	CONTRACT	267,364	20,709,997	77.46
	ADJUSTMENTS	-	943,424	-
	TOTAL	267,364	21,653,421	80.99
ALL PLANTS	SPOT	-	-	-
	CONTRACT	325,000	25,224,889	77.62
	ADJUSTMENTS	-	1,288,492	-
	TOTAL	325,000	\$ 26,513,381	\$ 81.58

Schedule 8

**DUKE ENERGY PROGRESS
ANALYSIS OF COAL QUALITY RECEIVED
OCTOBER 2017**

STATION	PERCENT MOISTURE	PERCENT ASH	HEAT VALUE	PERCENT SULFUR
ASHEVILLE	6.13	9.09	12,740	2.24
MAYO	6.55	7.96	12,871	2.74
ROXBORO	6.32	8.97	12,714	1.85

**DUKE ENERGY PROGRESS
ANALYSIS OF OIL PURCHASED
OCTOBER 2017**

	ASHEVILLE	MAYO	MAYO	ROBINSON
VENDOR	Indigo	Greensboro Tank Farm	Sutton	Selma Tank Farm
SPOT/CONTRACT	Contract	Contract	Spot	Contract
SULFUR CONTENT %	0	0		0
GALLONS RECEIVED	448,294	233,443	52,500	7,460
TOTAL DELIVERED COST	\$ 840,444	\$ 431,021	\$ 152,124	\$ 19,024
DELIVERED COST/GALLON	\$ 1.87	\$ 1.85	\$ 2.90	\$ 2.55
BTU/GALLON	138,000	138,000	138,000	138,000
	ROXBORO	ROXBORO	SUTTON	
VENDOR	Greensboro Tank Farm	Sutton	Transfer	
SPOT/CONTRACT	Contract	Spot	Spot	
SULFUR CONTENT %	0		0	
GALLONS RECEIVED	112,691	64,400	(116,900)	
TOTAL DELIVERED COST	\$ 208,684	\$ 187,949	\$ (325,730)	
DELIVERED COST/GALLON	\$ 1.85	\$ 2.92	\$ 2.79	
BTU/GALLON	138,000	138,000	138,000	

Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
November, 2016 - October, 2017
Nuclear Units

<u>Unit Name</u>	<u>Net Generation (mWh)</u>	<u>Capacity Rating (mW)</u>	<u>Capacity Factor (%)</u>	<u>Equivalent Availability (%)</u>
Brunswick 1	8,166,735	938	99.39	97.76
Brunswick 2	7,161,060	932	87.71	90.28
Harris 1	7,931,370	928	97.57	94.95
Robinson 2	5,912,401	741	91.08	88.18

**Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
November, 2016 through October, 2017
Combined Cycle Units**

Unit Name		Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
Lee Energy Complex	1A	1,424,518	223	72.92	81.87
Lee Energy Complex	1B	1,343,807	222	69.10	78.20
Lee Energy Complex	1C	1,347,282	223	68.97	76.31
Lee Energy Complex	ST1	2,590,657	379	78.03	85.88
Lee Energy Complex	Block Total	6,706,264	1,047	73.12	81.36
Richmond County CC	7	1,171,296	189	70.75	78.94
Richmond County CC	8	1,148,562	189	69.37	77.83
Richmond County CC	ST4	1,337,796	175	87.27	86.00
Richmond County CC	9	1,396,505	214	74.49	80.81
Richmond County CC	10	1,426,866	214	76.11	82.34
Richmond County CC	ST5	1,891,053	248	87.16	91.01
Richmond County CC	Block Total	8,372,078	1,229	77.78	83.13
Sutton Energy Complex	1A	1,367,833	225	69.40	80.29
Sutton Energy Complex	1B	1,382,730	225	70.15	80.65
Sutton Energy Complex	ST1	1,660,714	267	71.00	90.23
Sutton Energy Complex	Block Total	4,411,277	717	70.23	84.10

Notes:

- Effective January 2017, a change in capacity rating methodology could impact performance trending against historical results reported prior to January 2017.
- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

**Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
November, 2016 through October, 2017**

Intermediate Steam Units

Unit Name	Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
Mayo 1	1,520,440	746	23.27	86.12
Roxboro 2	1,663,915	673	28.22	94.53
Roxboro 3	2,077,840	698	33.98	90.08
Roxboro 4	1,163,135	711	18.67	68.46

Notes:

- Effective January 2017, a change in capacity rating methodology could impact performance trending against historical results reported prior to January 2017.
- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

**Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
November, 2016 through October, 2017
Other Cycling Steam Units**

Unit Name	Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Operating Availability (%)
Asheville 1	634,181	192	37.71	79.02
Asheville 2	638,803	192	37.98	82.89
Roxboro 1	744,594	380	22.37	89.40

Notes:

- Effective January 2017, a change in capacity rating methodology could impact performance trending against historical results reported prior to January 2017.
- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

**Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
November, 2016 through October, 2017
Combustion Turbine Stations**

Station Name	Net Generation (mWh)	Capacity Rating (mW)	Operating Availability (%)
Asheville CT	120,484	370	91.54
Blewett CT	-186	68	98.08
Darlington CT	86,288	911	84.08
Richmond County CT	1,661,799	916	88.24
Sutton CT	-325	76	98.02
Sutton Fast Start CT	48,632	90	87.68
Wayne County CT	380,507	959	96.11
Weatherspoon CT	-136	164	82.46

Notes:

- Effective January 2017, a change in capacity rating methodology could impact performance trending against historical results reported prior to January 2017.
- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

**Duke Energy Progress
Power Plant Performance Data**

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**Twelve Month Summary
November, 2016 through October, 2017
Hydroelectric Stations**

Station Name	Net Generation (mWh)	Capacity Rating (mW)	Operating Availability (%)
Blewett	78,201	27.0	76.97
Marshall	3,711	4.0	26.40
Tillery	114,418	84.0	93.20
Walters	241,413	113.0	99.25

Notes:

- Effective January 2017, a change in capacity rating methodology could impact performance trending against historical results reported prior to January 2017.
- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.